

Title (en)

METHOD AND SYSTEM FOR CONSTANT TEMPERATURE CONTROL OF MOTORIZED SPINDLES

Title (de)

VERFAHREN UND SYSTEM ZUR KONSTANTEN TEMPERATURSTEUERUNG VON MOTORISIERTEN SPINDELN

Title (fr)

PROCÉDÉ ET SYSTÈME DE RÉGULATION DE TEMPÉRATURE CONSTANTE DE BROCHES MOTORISÉES

Publication

EP 3711156 A1 20200923 (EN)

Application

EP 18879586 A 20181115

Priority

- AU 2017904657 A 20171117
- AU 2018051219 W 20181115

Abstract (en)

[origin: WO2019095009A1] The present invention provides a method and system for controlling the temperature of an electric motor by adjusting the electric losses in the motor. In an embodiment, the required load on the motor is determined and a first motor voltage is provided to meet the required load. A predetermined temperature set point for the motor is compared against the temperature of the motor and based on the temperature of the motor and the predetermined temperature set point, a secondary motor voltage is determined. The motor voltage may then be adjusted based on the calculated voltage and the motor load measurement adjusted based on the measured motor speed and actual motor voltage.

IPC 8 full level

H02P 29/60 (2016.01); **H02P 29/02** (2016.01)

CPC (source: AU EP KR US)

B23Q 11/14 (2013.01 - EP); **H02M 1/0048** (2021.05 - KR); **H02M 1/327** (2021.05 - KR); **H02P 21/0089** (2013.01 - KR); **H02P 21/06** (2013.01 - AU KR); **H02P 23/14** (2013.01 - AU KR); **H02P 27/047** (2013.01 - US); **H02P 29/02** (2013.01 - KR); **H02P 29/60** (2016.02 - AU EP KR); **H02P 29/64** (2016.02 - US); **H02P 29/662** (2016.10 - AU); **H02M 1/0048** (2021.05 - AU); **H02M 1/327** (2021.05 - AU); **H02P 21/0089** (2013.01 - AU); **H02P 2207/01** (2013.01 - US); **Y02B 70/10** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019095009 A1 20190523; AU 2018368814 A1 20200702; AU 2018368814 B2 20230112; CN 111886798 A 20201103; EP 3711156 A1 20200923; EP 3711156 A4 20220126; JP 2021503273 A 20210204; KR 20200088862 A 20200723; US 11394331 B2 20220719; US 11817807 B2 20231114; US 2020366233 A1 20201119; US 2023044412 A1 20230209

DOCDB simple family (application)

AU 2018051219 W 20181115; AU 2018368814 A 20181115; CN 201880086019 A 20181115; EP 18879586 A 20181115; JP 2020527013 A 20181115; KR 20207017296 A 20181115; US 201816765050 A 20181115; US 202217864705 A 20220714